



# MEF Engineer Group Decision Item

## Appendix J

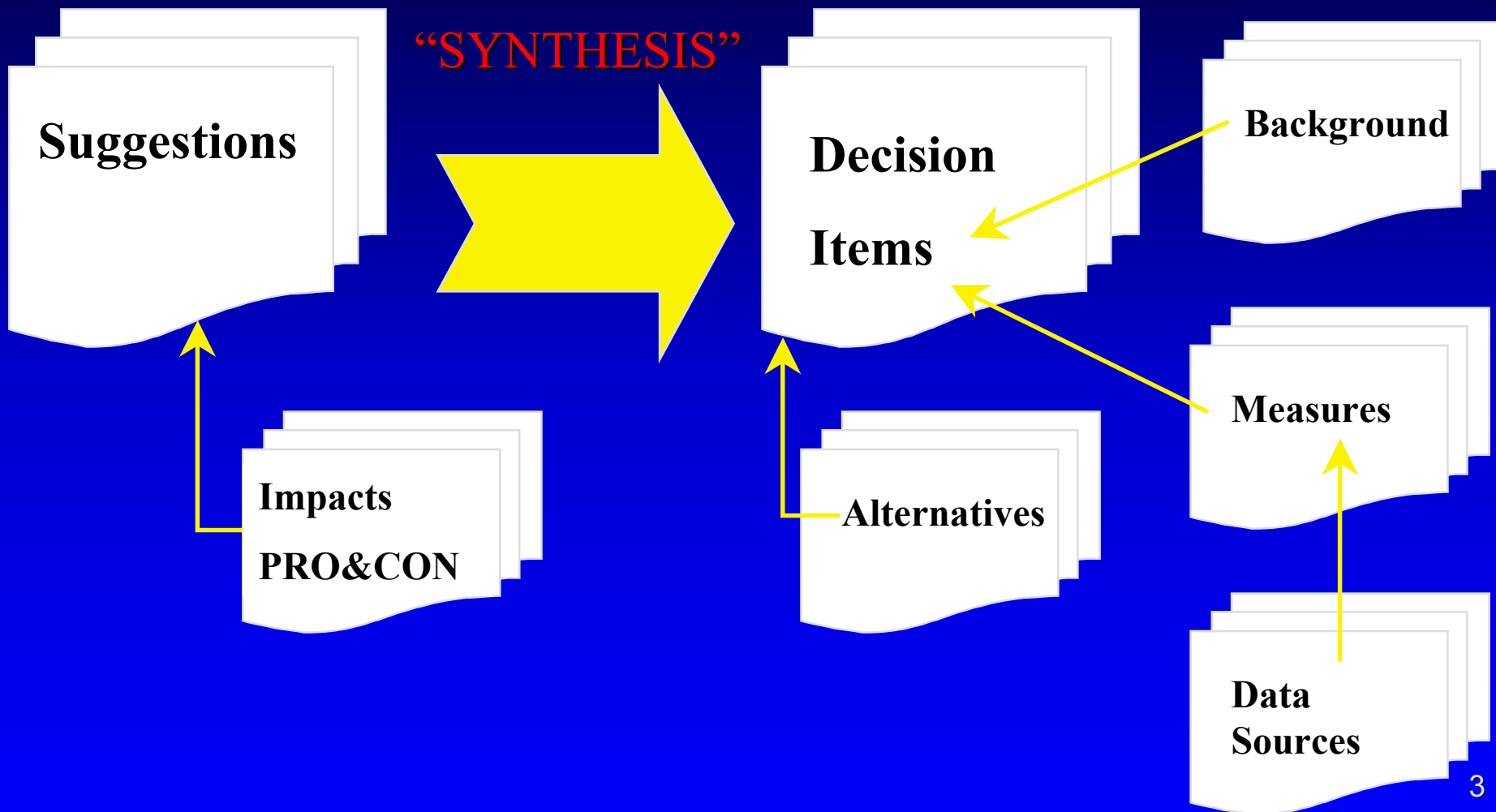
# MEF Engineer Group

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# Methodology Overview

## DISCOVERY

## FORMULATION



# Decision Item

Decision Item: Form a MEF Engineer Group (MEG) and add a DC/S Engineering Officer to the MarFor and MEF Staffs

# Discovery Findings

# Suggestion 28: Form a MEF Engineer Group (MEG) at the FSSG and add a DC/S Engineering Officer to the MarFor and MEF Staffs

## Source(s): Interviews, Questionnaires and Research

### Impacts Pro

- The MAGTF commander can weight the engineer effort
- Increased equipment readiness, improved training and skill development, career mentoring
- Equipment excesses and redundancies will be eliminated
- Provide tailored, better trained, mission focused and prepared units to support ACE and GCE tasks
- A Col as the DC/S Engineering will be the single voice and planner for the MarFor and MEF commander
- The DC/S Engineering will provide better coordination of the engr. effort

### Impacts Con

- The span of control may be too great for one commander and staff.
- Additional C2 assets will be needed in order to properly implement the MEG
- ACE and GCE commanders will no longer maintain day-to-day direct ownership of engineering equipment
- A MEG with Army and NCF units may be too challenging for a Marine 9904/1302 Colonel to effectively employ (IPR2 Response- I MEF)
- The MEF CG already has an engineering cell in the G-4 for advice (IPR2 Response- I MEF)

# Decision Item Formulation

# Background

- The formation of the MEF Engineer Group (MEG) is a concept that has been submitted to MCCDC in the form of a FONS and now UNS
- This concept has had a high degree of application in those OPLANs that require the addition of significant Army, NCF, and coalition engineering assets to a MEF
- OPLAN specific MEGs are tasked organized with the core a Marine Engineer Support Battalion (ESB) from the FSSG
- The MEG concept(s) encompass varying degrees of capabilities with the most ambitious concept describing the formation of multiple battalions specialized in construction, utilities, bulk liquids, utilities, combat engineering etc.
- The assignment of a Colonel (9904/1302) as the DC/S Engineer to the MARFORs and MEFs intended to improve the planning and execution of operations (Questionnaire)



# Background Summary

Decision Item: Form a MEF Engineer Group (MEG) and add a DC/S Engineering Officer to the MarFor and MEF Staffs

Reference Sources: Interviews and Questionnaires

Interdependencies: Programs: N/A  
Decision Items: CEB, HQ Btry Engineering, MWSG, Marine Corps Engineering Organization (Overarching)  
Other Areas: MAGTF CSS Organization

MAA Capabilities: 4.7 Perform Engineering Support

Impacts: See Suggestions with Pro & Con Impacts

# Alternatives (1 of 4)

## 1) **Retain the Status Quo (Baseline)**

- Do not form a MEG in each MEF or FSSG
- Do not create a DC/S Colonel (9904/1302) billet

## 2) **Implement the formation of the permanent MEG as a part of the MEF**

- Form the MEG with all engineering assets of the CSSE, GCE and ACE
- Form functional battalions (construction, utilities, combat engineer etc.)
- Assign to the MEF
- Create a DC/S Colonel (9904/1302) billet at the MARFOR and MEF HQs

# Alternatives (2 of 4)

## 3) Implement the formation of the permanent MEG as a part of the FSSG

- Form the MEG with all engineering assets of the CSSE, GCE and ACE
- Form functional battalions (construction, utilities, combat engineer etc.)
- Assign to the FSSG
- Create a DC/S Colonel (9904/1302) billet at the MARFOR and MEF HQs

# Alternatives (3 of 4)

## 4) Implement the formation of the task organized MEG as a part of the MEF

- Task organize a MEG IAW OPLAN requirements
- Form the MEG with the ESB, NCF units, Army and combined force units
- Assign to the MEF
- Create a DC/S Colonel (9904/1302) billet at the MARFOR and MEF HQs

# Alternatives (4 of 4)

## 5) **Implement the formation of the task organized MEG as a part of the FSSG**

- Task organize a MEG IAW OPLAN requirements
- Form the MEG with the ESB, NCF units, Army and combined force units
- Assign to the FSSG
- Create a DC/S Colonel (9904/1302) billet at the MARFOR and MEF HQs

# Effectiveness Measures

- Ability of the Marine Expeditionary Force (MEF) to Conduct Engineering Functions
  - # Days to initiate and maintain MEF engineering projects (MSRs, FOBs, Bridging, Beach Improvement)
  - # Days to build camps, and pre-engineered structures (vertical construction)
- Responsiveness
  - # Days for general engineering requirements (horizontal and vertical construction) of MEF, GCE and ACE Commanders to be met
  - # Hours to execute combat engineering tasks for the GCE
  - # Hours to execute aviation engineer support needs other than FOB construction and maintenance for the ACE
- Operational ability of the MEG to weight Main Effort of the MEF
  - Time (days) for the MEG to shift engineering support from one element of the MEF to another

# Data Source Assessment

Other Area: Form a MEG and add a DC/S Engineering Officer to the MarFor and MEF  
Measure: Effectiveness Measures

<u>Data Source</u>	<u>Quality</u>	<u>Availability</u>
OPLANS	YELLOW- RED	YELLOW- RED
Historical Records & Command Chronologies	YELLOW- RED	YELLOW- RED
Scenarios-War games	YELLOW- RED	YELLOW- RED

**Very Little Data Readily Available**

# Efficiency Measures

- Manpower Positions
  - Ratio of 13XX, and 11XX billets to Staff billets
  
- Cost
  - Equipment Density to Costs
  - Recurring Operations and Maintenance (O&M) Costs



# Data Source Assessment

Decision Item: Form a MEG and add a DC/S Engineering Officer to the MarFor and MEF  
Measure: Efficiency Measures

<u>Data Source</u>	<u>Quality</u>	<u>Availability</u>
Manpower Management System	YELLOW-GREEN	YELLOW-GREEN
MIMMS-SASSY and ATLASS	YELLOW-GREEN	YELLOW-GREEN

**Data involving Billets and Personnel costs can be developed for alternatives**

# Related Considerations

- Do the MEFs need a MEG in order to execute their peacetime and deployed missions?
- Does the concept of a MEG vary between OPLANs?
- Should a permanent MEG be formed, or can one be tasked organized as the requirement arises?
- Is the centralization of MEF engineer assets in a MEG a natural conclusion of the FSPG-99 CSS Migration recommendation?
- What are the connections between the NCF missions and tasks, the MEF ESB and a MEG?
- Should the MEF NCF assigned units be part of the MEG in peace and during deployment?
- What would be the command relationship and C2 span of control challenges with all elements of the MAGTF and joint force?
- If the MEG is formed can the C.O. also serve as the DC/S Engineer for the MEF?